Robert C. Colwell, Reg. No. 27,431   (650) 326-2400

Applicant: Yuichiro NAGASHIMA, et al.
Title: Storage System Control Method, Storage System, ...
Attorney Docket N . 16869S-093400
Sh   t 1 of 5
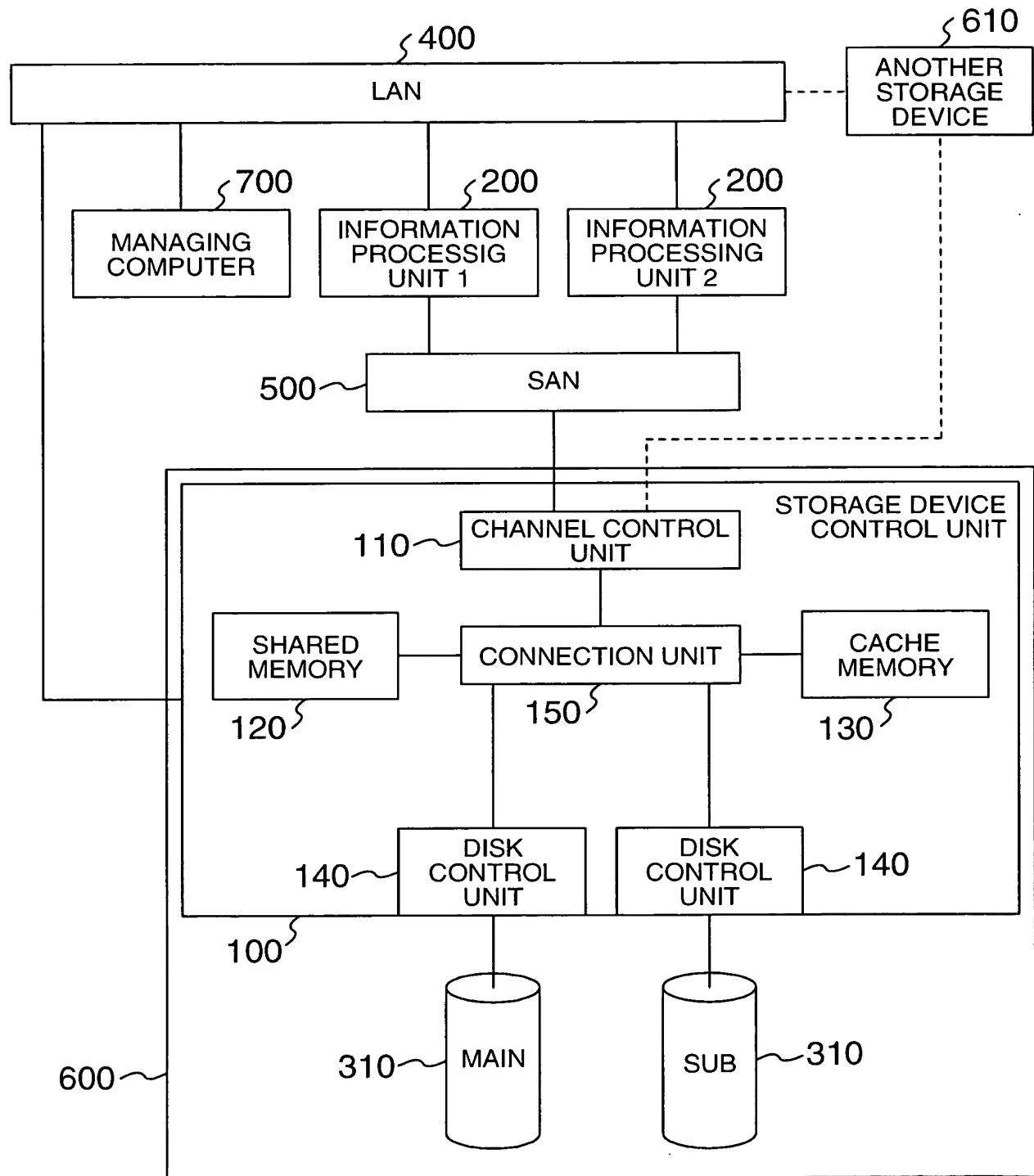
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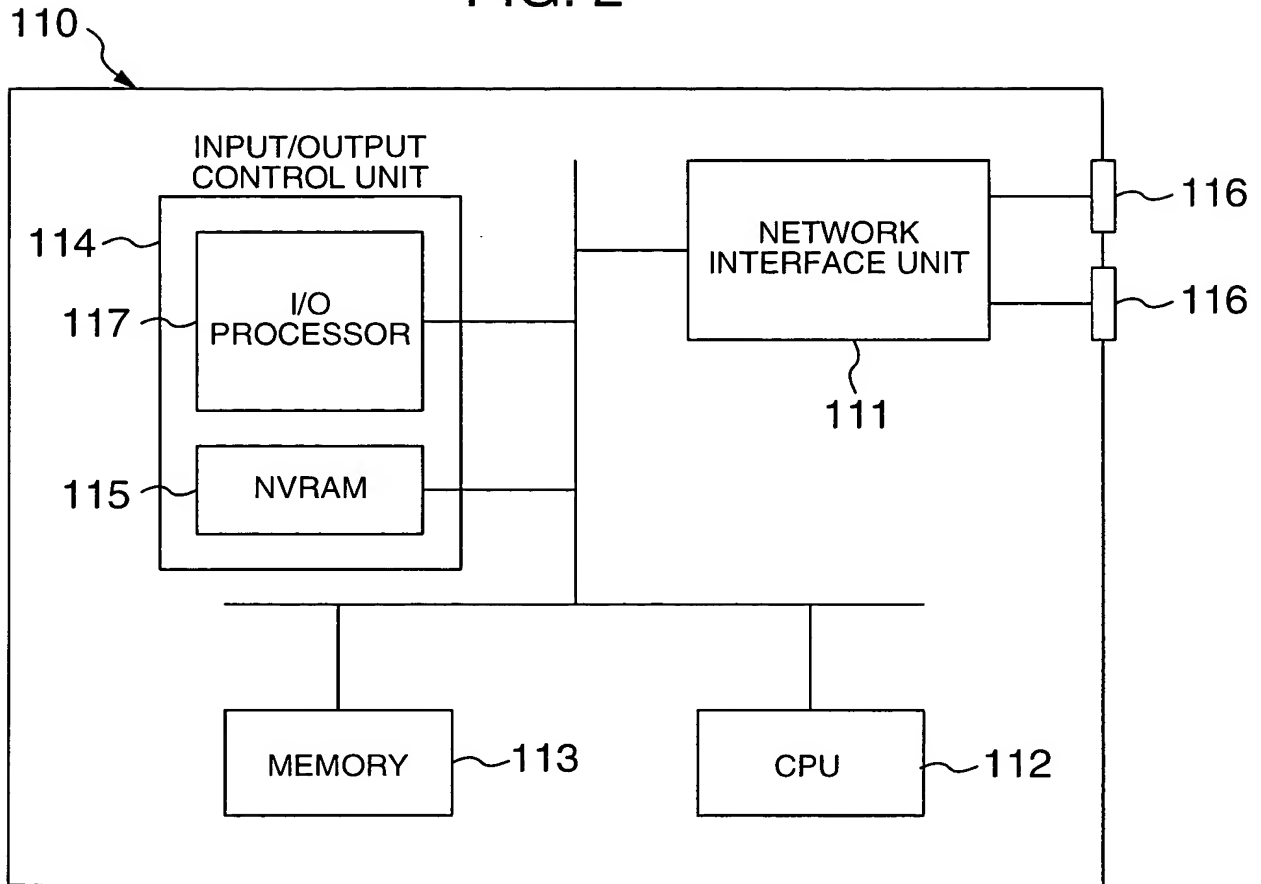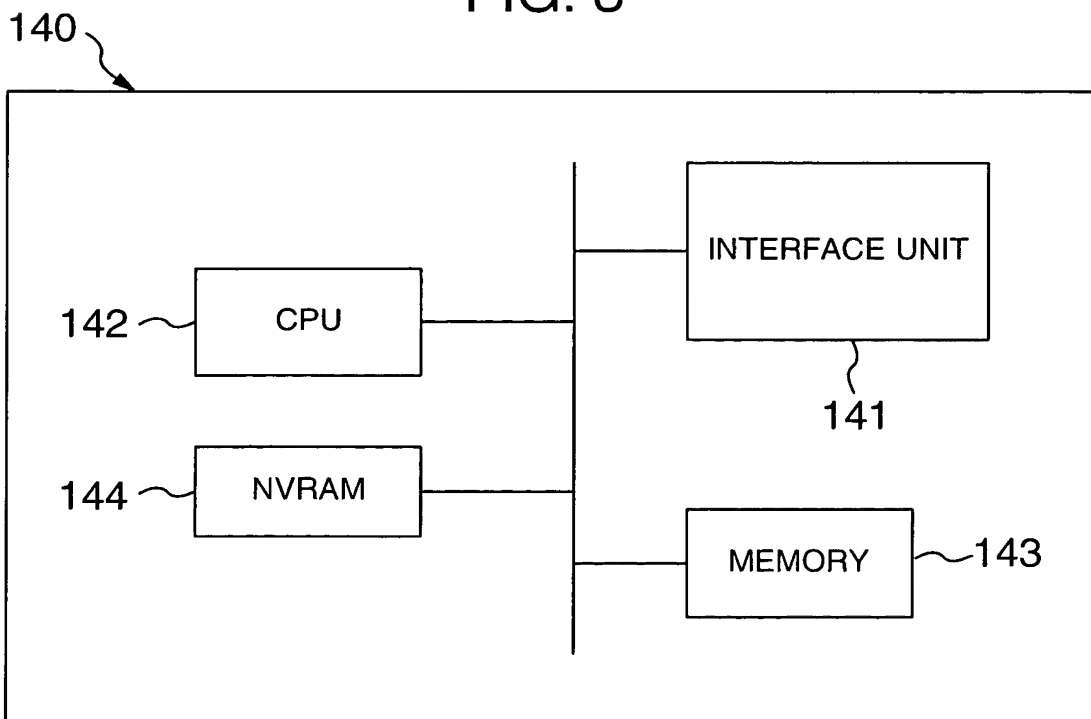
FIG. 1

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FIG. 2

110

INPUT/OUTPUT CONTROL UNIT

114

117 — I/O PROCESSOR

115 — NVRAM

NETWORK INTERFACE UNIT

116

116

111

MEMORY —113

CPU —112

FIG. 3

140

142 — CPU

144 — NVRAM

INTERFACE UNIT

141

MEMORY —143

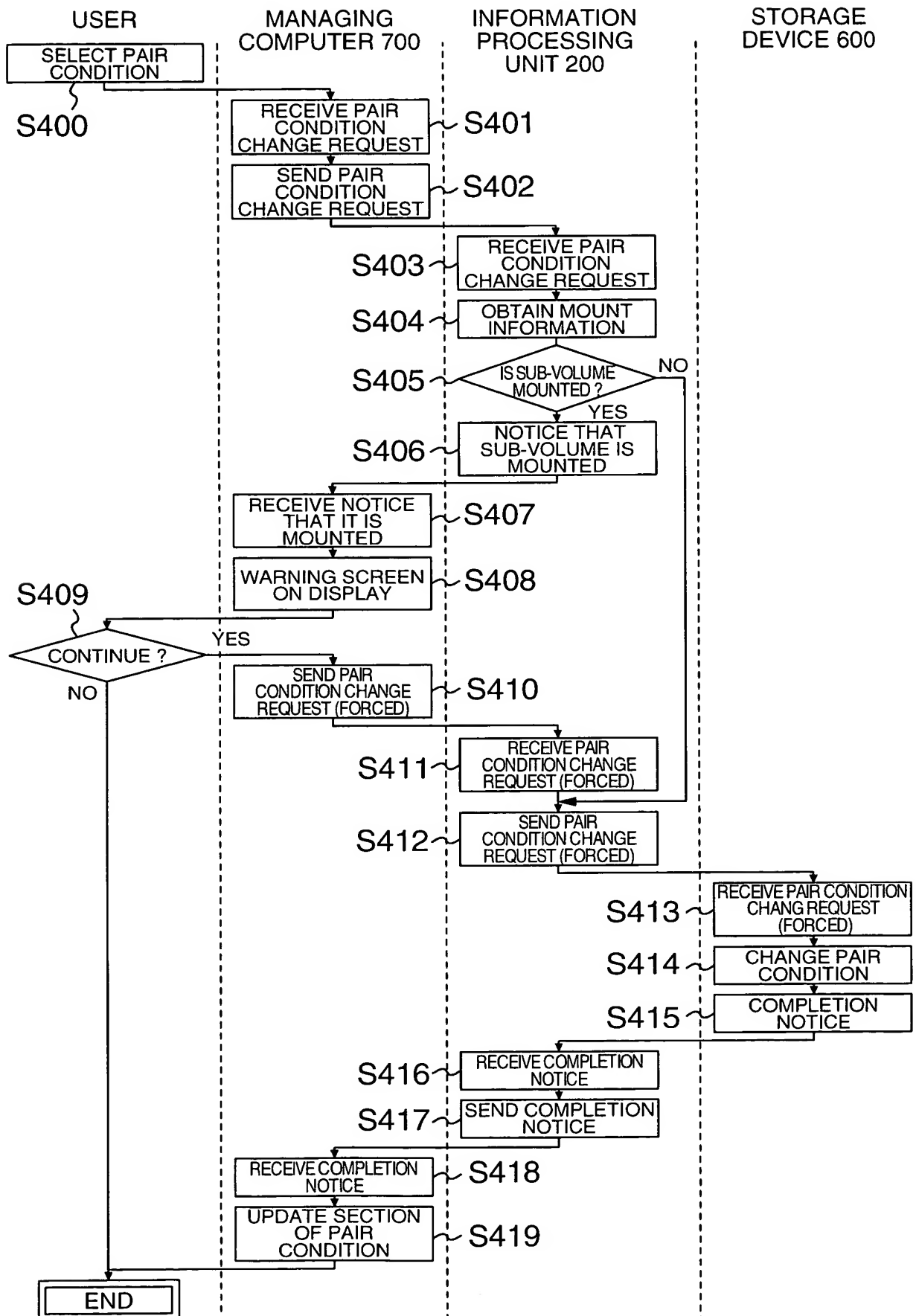Robert C. Colwell, Reg. No. 27,431   (650) 326-2400

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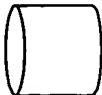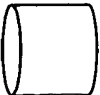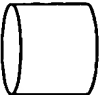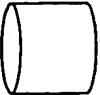Attorney D ck t No. 16869S-093400
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FIG. 4

| USER | MANAGING COMPUTER 700 | INFORMATION PROCESSING UNIT 200 | STORAGE DEVICE 600 |

SELECT PAIR CONDITION

S400

RECEIVE PAIR CONDITION CHANGE REQUEST — S401

SEND PAIR CONDITION CHANGE REQUEST — S402

S403 — RECEIVE PAIR CONDITION CHANGE REQUEST

S404 — OBTAIN MOUNT INFORMATION

S405 — IS SUB-VOLUME MOUNTED ?   NO

YES

S406 — NOTICE THAT SUB-VOLUME IS MOUNTED

RECEIVE NOTICE THAT IT IS MOUNTED — S407

WARNING SCREEN ON DISPLAY — S408

S409

CONTINUE ?   YES

NO

SEND PAIR CONDITION CHANGE REQUEST (FORCED) — S410

S411 — RECEIVE PAIR CONDITION CHANGE REQUEST (FORCED)

S412 — SEND PAIR CONDITION CHANGE REQUEST (FORCED)

S413 — RECEIVE PAIR CONDITION CHANG REQUEST (FORCED)

S414 — CHANGE PAIR CONDITION

S415 — COMPLETION NOTICE

S416 — RECEIVE COMPLETION NOTICE

S417 — SEND COMPLETION NOTICE

RECEIVE COMPLETION NOTICE — S418

UPDATE SECTION OF PAIR CONDITION — S419

END

FIG. 5

PAIR CONDITION CHANGE

STORAGE DEVICE	LOGICAL VOLUME	ROLE	CONDITION OF PAIR	CHANGE OF CONDITION	PAIRED LOGICAL VOLUME	
					STORAGE DEVICE	LOGICAL VOLUME
#A	#1	MAIN VOLUME	SPLIT CONDITION	SPLIT CONDITION ▶	#A	#2
#A	#2	SUB- VOLUME	SPLIT CONDITION	SPLIT CONDITION ▶	#A	#1
#A	#3	SUB- VOLUME	PAIR CONDITION	PAIR CONDITION / SPLIT CONDITION	#B	#1
#A	#4	—	—	—	—	—
#B	#1	MAIN VOLUME	PAIR CONDITION	PAIR CONDITION ▶	#A	#3

FIG. 6

WARNING

THIS SUB-VOLUME IS MOUNTED AT INFORMATION PROCESSING UNIT XX.

IF YOU PERFORM THIS OPERATION THERE IS A POSSIBILITY THAT
THE CONTENTS OF THE SUB-VOLUME ARE ERASED.

DO YOU WANT TO CONTINUE THE PROCESS? (y/n)

| Yes | No |

FIG. 7

CHANGE OF THE PAIR CONDITION IS COMPLETED.

OK